

Utah Stakeholder Working Group on Climate Change
Ideas for Development of Climate Science Report
Draft: December 23, 2006

1. Sources to be limited to peer-reviewed scientific publications such as:
 - a. UN Intergovernmental Panel on Climate Change
 - b. National Academy of Science/National Research Council
 - c. *Science* and other peer reviewed science journals
 - d. Pew Center on Global Climate Change reports
2. Current evidence of climate change, what is known and generally agreed to/where is there is the greatest uncertainty and evidence is disputed:
 - a. Average temperature rise, record high temperatures
 - b. Changes in global ice cover, including Arctic and Antarctic sea ice, Greenland and other land-based ice sheets and glaciers
 - c. Increased frequency and severity of hurricanes
 - d. Changes in species/habitats associated with climate change
 - e. Droughts, rainfall, and other major changes in climate
3. Climate models and projections about future climate change:
 - a. Long-term temperature trends and projections
 - b. Projected changes in ocean temperature, sea level rise, ocean circulation
 - c. Projected changes in global weather, rainfall, and storms
 - d. Impacts on human health, disease
 - e. Impacts on agriculture, soils, food production
 - f. Impacts on biodiversity
 - g. Feedback loops, tipping points, and the threat of catastrophic climate change
4. Specific impacts of climate change on Utah and the West:
 - a. Forest fires, soil, drought, and temperature increases
 - b. Droughts, snowpack, rainfall, and water supply
 - c. Benefits to Utah and the West from preventing disruptive climate change
5. Major policy options based on the nature of the climate change threat:
 - a. The Framework Convention on Climate Change, Kyoto Protocol
 - b. Short-term goals for GHG reductions set by states, other countries
 - c. Long-term goals for GHG reductions by 2050: growing consensus around 70-80% reduction
 - d. Intersection of climate, energy, and air pollution policy goals and regulations

